

Title (en)

Axially loaded optical fibre connector assembly

Title (de)

Axial vorgespannte faseroptische Verbindungsanordnung

Title (fr)

Ensemble de connexion pour fibres optiques précontraint axialement

Publication

EP 1783522 A1 20070509 (EN)

Application

EP 05023938 A 20051103

Priority

EP 05023938 A 20051103

Abstract (en)

An optical fibre assembly 10 comprises first and second fibre ferrules 22, 24, key collars 26, 28, ferrule holders 32, 34, a load spring 16 and load balancing discs 18, 20. The balancing discs 18, 20 each have a generally conical shaped profiled balancing face 18a, 20a on one side, and are arranged with their balancing faces 18a, 20a facing and coupled to one another such that the balancing discs 18, 20 are free to rock relative to one another. One balancing disc 18 has a key socket 90 provided on its other side, for receiving the ends of the key collars 26, 28. The other balancing disc 20 has a spring seat 92 provided on its other side, for receiving on end of the load spring 16. The load spring 16 acts through the balancing discs 18, 20 and the key collars 26, 28 on the fibre ferrules 22, 24.

IPC 8 full level

G02B 6/38 (2006.01)

CPC (source: EP)

G02B 6/3821 (2013.01); **G02B 6/3851** (2013.01); **G02B 6/3878** (2013.01)

Citation (search report)

- [XA] EP 0969300 A2 20000105 - YAZAKI CORP [JP]
- [XA] US 4184742 A 19800122 - CORRALES PATRICK G [US]
- [X] US 4657340 A 19870414 - TANAKA TOSHIYASU [JP], et al
- [X] EP 0831348 A2 19980325 - SUMITOMO WIRING SYSTEMS [JP], et al
- [A] WO 9415232 A1 19940707 - BT & D TECHNOLOGIES LTD [GB], et al

Cited by

CN105005118A; US9304266B2; WO2021087147A1; US11340405B2; US11886016B2; US11988875B2; GB2609649A; WO2023016835A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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